

AMENDMENTS TO THE CLAIMS

1. (CURRENTLY AMENDED) A ball motion measuring apparatus comprising:
a CCD camera for photographing a flying ball to obtain original image data;
a calculating section for carrying out a magnifying process ~~over a part~~ on only a
portion of an original image including a ball image ~~in an original image~~, thereby calculating
magnified image data; and
a display section for displaying a magnified image based on the magnified image
data wherein the magnified image data is used to calculate ball motion.

2. (ORIGINAL) The ball motion measuring apparatus according to claim 1, wherein
the CCD camera has a horizontal view angle of 10 degrees or more.

3. (CURRENTLY AMENDED) A ball motion measuring apparatus comprising:
a CCD camera for photographing a flying ball to obtain original image data; and
a calculating section for correcting a coordinate error of only a ball image in the
original image made by a distortion of an original image which is caused by a lens of the
CCD camera, thereby calculating correction data, said correction data being used to
calculate true coordinates of the ball image.

4. (ORIGINAL) The ball motion measuring apparatus according to claim 3, wherein the coordinate error is corrected based on a correction ratio determined by a distance from a center of the original image.

5. (ORIGINAL) The ball motion measuring apparatus according to claim 3, wherein the CCD camera has a horizontal view angle of 10 degrees or more.

6. (CURRENTLY AMENDED) A ball motion measuring apparatus comprising:
a CCD camera for photographing a flying ball to obtain original image data; and
a calculating section for correcting a coordinate error of only a ball image in the original image made by a shift of a direction of a the ball image from a direction of an optical axis of the CCD camera, thereby calculating correction data, said correction data being used to calculate true coordinates of the ball image.

7. (ORIGINAL) The ball motion measuring apparatus according to claim 6, wherein the correction of the coordinate error serves to convert data obtained from an original image into data obtained by photographing a front part of the ball at infinity.

8. (ORIGINAL) The ball motion measuring apparatus according to claim 6, wherein the CCD camera has a horizontal view angle of 10 degrees or more.

9. (NEW) The ball motion measuring apparatus according to claim 1, wherein said calculating section corrects a coordinate error of only the ball image in the original image made by a distortion of the original image which is caused by a lens of the CCD camera, thereby calculating correction data, said correction data being used to calculate true coordinates of the ball image.

10. (NEW) The ball motion measuring apparatus according to claim 1, wherein said calculating section corrects a coordinate error made by a shift of a direction of the ball image in the original image from an optical axis of the CCD camera, thereby calculating correction data, said correction data being used to calculate true coordinates of the ball image.
